

Assignment -3

Python Programming

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| Assignment Date | 01 October 2022 |
| Student Name | Nithish P |
| Student Roll Number | 420719106020 |
| Maximum Marks | 2 Marks |

BLINKING OF LED IN RASPBERRY PI:

Program:

```
import RPi.GPIO as gpio
from time import sleep
```

```
gpio.setwarnings(False)
gpio.setmode(GPIO.BOARD)
gpio.setup(23, GPIO.OUT, initial=GPIO.LOW)
```

```
while True:
    gpio.output(23, GPIO.HIGH)
    sleep(1)
    gpio.output(23, GPIO.LOW)
    sleep(1)
```

TRAFFIC LIGHT IN RASPBERRY PI

Program:

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep
```

```
buzzer = Buzzer(15)
button = Button(21)
lights = TrafficLights(25, 8, 7)
```

```
while True:
    button.wait_for_press()
    buzzer.on()
    light.green.on()
    sleep(1)
    lights.amber.on()
    sleep(1)
    lights.red.on()
    sleep(1)
    lights.off()
    buzzer.off()
```